WP4-install progress

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Overview

- Plans

- Work done

- Issues

Initial Plans until R2

- **For release 1.2 (End of March):**
    - Bugfixes, documentation
    - LCFG light

- **For release 1.3 (End of May):**
    - Port new LCFG to EDG and RH62

- **For release 1.4 (End of July):**
    - Integrate new HLD configuration language and compiler
    - CDB->Kickstart translator prototype
    - Support for RH72
    - Integration with monitoring
    - Investigate CCM integration

- **For release 2.0 (End of September):**
    - Kept for buffer overflows...

Work done (I)

Release 1.2:

◆ Released

◆ Moved away from BOOTP to DHCP

  ▪ Escape 64-byte limitations in options

◆ Some minor tasks on hold due to misc reasons (see progress reports)

Work done (II)

<u>Release 1.3 – LCFGng</u>

- EDG / LCFGng *almost* released – delay due to critical illness in Edinburgh
  - Will we be on time for release 1.3?
  - Heavy testing is required before releasing to development testbed (end of next week!)

- LCFGng backported from RH 7.1 to EDG 6.2
  - Local dependencies identified & removed in LCFGng components
  - Most issues solved (e.g. use of different bash versions)
  - Work now concentrating on base installation components

- Edinburgh's DICE build environment adapted/ported to EDG
  - Enable usage of same buildtools at EDG and Edinburgh
  - Conformance with EDG build tools
  - *Almost* all EDG+Edinburgh components ported to DICE build environment

Work done (III)

- LCFGng core libs/tools and components identified and imported into EDG CVS
    - ~ 20 components imported
    - More flexibility and robustness by maintaining separated CVS repositories for EDG and Edinburgh -> robustness, site independence

- EDG components/libs and EDG modified LCFG components rewritten/ported to LCFGng
    - ~ 15 components
    - Includes new components / libraries for improved configuration access, and managing init.d scripts
    - EDG aims are to use LCFG as *system configuration* tool only
    - EDG-LCFG Monitoring components available

- New configuration schema: first version to be presented tomorrow by Maite

Work done (IV)

Release 1.4 & 2.0

- ◆ Work on interfacing LCFG with the new HLD.
    - ▪ Worked on porting example components from `mkxprof` to `pan`.
    - ▪ `Pan` can generate output compatible with experimental LCFGng client.
    - ▪ Work on making the `.def` files optional is ongoing.
    - ▪ Integration is most likely to be labelled as 'experimental' (dvp testbed deployment)

- ◆ The CCM/NVA API discussions tomorrow will have a significant impact on what will be done for R1.4 and 2.0

- ◆ Replacing LCFG installer with KickStart/Anaconda: See presentation by INFN tomorrow

- ◆ Support for RH72:
    - ▪ LCFGng runs natively on RH71
    - ▪ Porting will be done based on the CERN certified RH72

Issues

- ◆ **Multiplatform support**
  - ▪ How to manage components for multiple platforms (now: RH62, RH72, in the future: RH X.Y, Solaris?)
  - ▪ How to manage release cycles for different platforms
  - ▪ Learn from other systems (eg. SUE)

- ◆ **HLD integration**
  - ▪ We have to weigh backwards compatibility with the need to integrate with the new HLD.

- ◆ **Support for network boot (PXE, bpbatch)**
  - ▪ Several solutions exist: CERN (pxelinux), Edinburgh (pxegrub), CNAF (bpbatch?)
  - ▪ Going towards KickStart/Anaconda will increase the choices

- ◆ **Upgrade mechanism**
  - ▪ Not sure yet if we can provide a non-intrusive upgrade for RH62 LCFG->LCFGng clients

- ◆ **Documentation, documentation, documentation, docum...**